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APPLICATION NO.	I	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/712,483	-	11/13/2003	Mark E. Pecen	CS21844RL	8324
20280	7590	09/22/2005		EXAMINER	
MOTORO			HUYNH, CHUCK		
600 NORTH US HIGHWAY 45 ROOM AS437				ART UNIT	PAPER NUMBER
LIBERTYV	/ILLE, IL	60048-5343	2683		
				DATE MAILED: 09/22/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/712,483	PECEN ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Chuck Huynh	2683				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 13 No.	ovember 2003.	•				
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Dispositi	ion of Claims						
4)⊠	Claim(s) 1-18 is/are pending in the application.						
·	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1-17</u> is/are rejected.						
7)⊠	Claim(s) <u>18</u> is/are objected to.						
8)	Claim(s) are subject to restriction and/o	r election requirement.					
Applicat	ion Papers						
9)	The specification is objected to by the Examine	г.					
	The drawing(s) filed on is/are: a) acce		Examiner.				
·	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).				
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority (under 35 U.S.C. § 119						
_	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).				
	☐ All b)☐ Some * c)☐ None of:	priority arraor of cross 5 - 10(a)	, (=, =, (,,				
	1. Certified copies of the priority documents	s have been received.					
	2. Certified copies of the priority documents	s have been received in Applicati	on No				
	3. Copies of the certified copies of the prior	rity documents have been receive	ed in this National Stage				
	application from the International Bureau	u (PCT Rule 17.2(a)).					
* 5	See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachmen			(222				
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D					
3) X Infon	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date		Patent Application (PTO-152)				

DETAILED ACTION

Allowable Subject Matter

Regarding claim 18, it could be allowed for the fact that no references searched at this time can fully encompass the claim's limitation with the specific formulas, in that in that specific order of application.

Furthermore, claim 18 should only have one period at the **end** of the claim language. Until appropriate correction is made, the claim is not in condition for allowance.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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2. Claim 1-9, 14, 17 are rejected under 35 U.S.C. 102(e) as being anticipated by Gwon et al. (hereinafter Gwon).

Regarding claim 1, Gwon discloses a method of operating a mobile communication device, comprising the steps of:

calculating parameters indicative of received signal strength over time (Page 2-3: [0024];

determining whether a predetermined relationship exists between the values of the parameters (Page 1-2: [0011], [0012]); and

determining reselection is imminent if said predetermined relationship exists (Page 3: [0024]).

Regarding claim 2, Gwon discloses the method as defined in claim 1, where said step of determining whether a predetermined relationship exists determines how many predetermined conditions exist (Page 1: [0009]).

Regarding claim 3, Gwon discloses the method as defined in claim 1, wherein said step of calculating includes measuring received signal strength (Page 2-3: [0024]).

Regarding claim 4, Gwon discloses the method as defined in claim 3, wherein said step of calculating includes computing a plurality of parameters as a mean of the received signal strength measurements (Page 1: [0009], [0010]).

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Regarding claim 5, Gwon discloses the method as defined in claim 4, wherein said step of determining if at least one predetermined criteria is met determines if a plurality of parameters are met (Page 3: [0027]; Page 1-2: [0009-0013]).

Regarding claim 6, Kwon discloses the method as defined in claim 1, further including the step of sending a message to at least one of a visual bearer and a network upon determining that a reselection is imminent (Page 3: [0031]).

Regarding claim 7, Kwon discloses the method according to claim 1, further including the step of calculating a relative time for said reselection (Page 3: [0025]).

Regarding claim 17, Kwon discloses the method according to claim 7, wherein said step of calculating further includes performing an n-points sliding parabola calculation by finding required initial sums (mean) based on the first yj reselection criteria values (prediction parameters) at corresponding moments tj (Page 3: [0029]).

Regarding claim 8, it is inherent that the method according to claim 1, further including the step of receive threshold information from the network for controlling mobile reselection (such as signal strengths disclosed in Kwon: Page 2-3 [0024]).

Regarding claim 9, Kwon discloses the method of claim 1, wherein the step of computing comprises performing RSSI measurements (Page 2-3: [0023-0024]).

Regarding claim 14, Kwon discloses a mobile communication device, comprising: a measurement module (Page 2-3: [0024]);

a reselection predictor coupled to the measurement module, the reselection predictor producing in the mobile communication device a likelihood of cell reselection message based on measurements made by the mobile (Page 2-3: [0024]).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kwon in view of Tuutijarvi et al. (hereinafter Tuutijarvi).

Regarding claim 10, Kwon discloses all the particulars of the claim but is unclear on the method of claim 9, wherein the RSSI measurements are computed every time division multiple access frame in a temporary block flow mode.

However, Tuutijarvi does disclose the RSSI measurements are computed every time division multiple access frame in a temporary block flow mode (Col 4, lines 21-27).

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It would have been obvious to one ordinarily skilled in the art at the time of invention to incorporate Tuutijarvi's disclosure to provide a method to measure received signal strength in a TDMA system.

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5. Claim 11-13, 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kwon in view of Terasawa.

Regarding claim 11, Kwon discloses all the particulars of the claim but is unclear on the method according to claim 1, further including the step of initiating flow control in response to determining that reselection is imminent

However, Terasawa discloses the method according to claim 1, further including the step of initiating flow control in response to determining that reselection is imminent (Page 8, [0070]).

It would have been obvious to one ordinarily skilled in the art at the time of invention to incorporate Terasawa's disclosure to provide handover for connectivity.

Regarding claim 12 Terasawa discloses The method of claim 11, further including the step of entering flow control in the virtual bearer (remote unit buffers 10s) responsive to a signal received from the network (Page 8: [0069-0070]).

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Regarding claim 13. The method of claim 11, further including the step of entering flow control in the virtual bearer responsive to the message that reselection (handoff) is imminent (Page 8, [0070]).

Regarding claim 15, Kwon discloses all the particulars of the claim even the layers of determining a cell change is imminent (L2 and L3 through of reference) but is unclear on the mobile communication device according to claim 14, further including a virtual bearer for applying flow control to the lower layers, the virtual bearer applying flow control responsive to a determination that a cell change is imminent.

However, Kwon in combination with Terasawa does disclose the mobile communication device according to claim 14, further including a virtual bearer for applying flow control to the lower layers, the virtual bearer applying flow control responsive to a determination that a cell change is imminent (Page 8: [0069-0070]).

It would have been obvious to one ordinarily skilled in the art at the time of invention to combine Terasawa with Kwon to provide procedures of establishing connectivity during handover.

Regarding claim 16, Terasawa discloses the mobile communication device according to claim 15, wherein the virtual bearer (buffer inherent within remote device) is coupled to the reselection predictor to receiving the likelihood of cell reselection message from the predictor (Page 8: [0069-0070]).

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Conclusion

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Chuck Huynh whose telephone number is 571-272-

7866. The examiner can normally be reached on M-F 8am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, William Trost can be reached on 571-272-7872. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

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Chuck Huynh

WILLIAM TROST
SUPERVISORY PATENT EXAMINER

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